

Haley Construction, Inc.
Piscataquis County
Sangerville, Maine
A-132-71-G-M/R

Departmental
Findings of Fact and Order
Air Emission License

After review of the air emission license renewal application, staff investigation reports, and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A., Section 344 and Section 590, the Department finds the following facts:

I. REGISTRATION

A. Introduction

Haley Construction, Inc. (Haley), located in Sangerville, Maine has applied to renew their Air Emission License, permitting the operation of their concrete batch plant, primary and secondary rock crushers and associated equipment. Haley has also requested a minor revision to correct the heat input capacities of their two small boilers.

B. Emission Equipment

Concrete Plant:

<u>Equipment</u>	<u>Process Rate</u> (cubic yards/hour)	<u>Control Devices</u>
Concrete Batch Plant	75	fabric filters

Rock Crushers:

<u>Designation</u>	<u>Powered</u>	<u>Process Rate</u> (tons/hour)	<u>Control Device</u>	<u>Date of</u> <u>Manufacture</u>
Primary	Electrical drive	65	Spray Nozzles	pre-1983
Secondary	Electrical drive	10	Spray Nozzles	pre-1983

Boilers:

<u>Emission Unit</u>	<u>Max. Capacity</u>	<u>Max. Firing Rate</u>	<u>Fuel Type and % Sulfur</u>
Boiler #1	2.1 MMBtu/hr	15 gal/hr	#2 fuel oil, 0.5%
Boiler #2	2.2 MMBtu/hr	15.5 gal/hr	#2 fuel oil, 0.5%

C. Application Classification

The modification of a minor source is considered a major modification based on whether or not expected emission increases exceed the "Significant Emission

Levels” as given in Maine’s Air Regulations. This modification is determined to be a renewal and minor revision and has been processed as such.

II. BEST PRACTICAL TREATMENT

In order to receive a license the applicant must control emissions from each unit to a level considered by the Department to represent Best Practical Treatment (BPT), as defined in Chapter 100 of the Bureau of Air Quality regulations.

BPT for existing emissions equipment means that method which controls or reduces emissions to the lowest possible level considering:

- the existing state of technology
- the effectiveness of available alternatives for reducing emissions from the source being considered; and
- the economic feasibility for the type of establishment involved.

A. Concrete Batch Plant

To meet the requirements of BPT for control of particulate matter (PM) emissions from the cement silo, particulate emissions shall be vented through a fabric filter maintained for 99% removal efficiency. Visible emissions from the cement silo fabric filter are limited to no greater than 5% opacity on a six-minute block average basis.

All components of the concrete batch plant shall be maintained so as to prevent PM leaks. Visible emissions from concrete batching operations shall not exceed 20% opacity on a six-minute block average basis.

B. Rock Crushers

The primary and secondary rock crushers are non-portable and have rated capacities of 65 tons per hour and 10 tons per hour, respectively. The primary and secondary rock crushers were manufactured before August 31, 1983. The primary and secondary rock crushers are therefore not subject to EPA New Source Performance Standards (NSPS) Subpart OOO for Nonmetallic Mineral Processing Plants manufactured after August 31, 1983, with capacities greater than 150 tons/hr for portable plants and greater than 25 tons/hr for non-portable plants.

The regulated pollutant from the rock crushers is particulate emissions. To meet the requirements of Best Practical Treatment (BPT) for control of particulate matter (PM) emissions from the rock crushers, Haley shall operate and maintain water sprays on the rock crushers. Visible emissions from the rock crushers shall be limited to no greater than 10% opacity on a six-minute block average basis.

C. Boilers

The two steam generating units are small units with maximum heat input capacities of 2.1 and 2.2 MMBtu/hr, each, firing #2 fuel oil with a maximum sulfur content not to exceed 0.5% by weight. The facility accepts an annual fuel use limit of 15,000 gallons.

D. Stock Piles and Roadways

BPT for all potential sources of fugitive PM emissions, including material stockpiles and unpaved roadways, shall be controlled by wetting with water, with calcium chloride, or other methods as approved by the Bureau of Air Quality to prevent visible emissions in excess of 10% opacity, on a three-minute block average basis.

E. Parts Degreaser

Haley's solvent degreasers are subject to Chapter 130 of the Department's regulations including, but not limited to proper labeling, closing cover when not in use, and exclusion from degreasing of porous materials. By meeting requirements set forth in Chapter 130, Haley's degreasers shall be considered to receiving BPT.

F. Facility Emissions and Fuel Use Caps

(Note any fuel caps and operating restrictions that affect the allowable facility emissions).

Total Allowable Annual Emissions for the Facility

(used to calculate the annual license fee)

<u>Pollutant</u>	<u>TPY</u>
PM	0.1
PM ₁₀	0.1
SO ₂	0.6
NO _x	0.4
CO	0.1
VOC	0.1

III. AMBIENT AIR QUALITY ANALYSIS

According to the Maine Regulations Chapter 115, the level of air quality analyses required for a renewal source shall be determined on a case-by-case basis. Based on the total facility emissions, Haley is below the emissions level required for modeling and monitoring.

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ORDER

Based on the above Findings and subject to conditions listed below the Department concludes that the emissions from this source:

- will receive Best Practical Treatment,
- will not violate applicable emission standards,
- will not violate applicable ambient air quality standards in conjunction with emissions from other sources.

The Department hereby grants Air Emission License A-132-71-G-M/R, subject to the following conditions:

STANDARD CONDITIONS

- (1) Employees and authorized representatives of the Department shall be allowed access to the licensee's premises during business hours, or any time during which any emissions units are in operation, and at such other times as the Department deems necessary for the purpose of performing tests, collecting samples, conducting inspections, or examining and copying records relating to emissions.
- (2) The licensee shall acquire a new or amended air emission license prior to commencing construction of a modification, unless specifically provided for in Chapter 115.
- (3) Approval to construct shall become invalid if the source has not commenced construction within eighteen (18) months after receipt of such approval or if construction is discontinued for a period of eighteen (18) months or more. The Department may extend this time period upon a satisfactory showing that an extension is justified, but may condition such extension upon a review of either the control technology analysis or the ambient air quality standards analysis, or both.
- (4) The licensee shall establish and maintain a continuing program of best management practices for suppression of fugitive particulate matter during any period of construction, reconstruction, or operation which may result in fugitive dust, and shall submit a description of the program to the Department upon request.
- (5) The licensee shall pay the annual air emission license fee to the Department, calculated pursuant to Title 38 M.R.S.A. § 353.
- (6) The license does not convey any property rights of any sort, or any exclusive privilege.

- (7) The licensee shall maintain and operate all emission units and air pollution systems required by the air emission license in a manner consistent with good air pollution control practice for minimizing emissions.
- (8) The licensee shall maintain sufficient records to accurately document compliance with emission standards and license conditions and shall maintain such records for a minimum of six (6) years. The records shall be submitted to the Department upon written request.
- (9) The licensee shall comply with all terms and conditions of the air emission license. The filing of an appeal by the licensee, the notification of planned changes or anticipated noncompliance by the licensee, or the filing of an application by the licensee for a renewal of a license or amendment shall not stay any condition of the license.
- (10) The licensee may not use as a defense in an enforcement action that the disruption, cessation, or reduction of licensed operations would have been necessary in order to maintain compliance with the conditions of the air emission license.
- (11) In accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department, the licensee shall:
 - (i) perform stack testing to demonstrate compliance with the applicable emission standards under circumstances representative of the facility's normal process and operating conditions:
 - a. within sixty (60) calendar days of receipt of a notification to test from the Department or EPA, if visible emissions, equipment operating parameters, staff inspection, air monitoring or other cause indicate to the Department that equipment may be operating out of compliance with emission standards or license conditions; or
 - b. pursuant to any other requirement of this license to perform stack testing.
 - (ii) install or make provisions to install test ports that meet the criteria of 40 CFR Part 60, Appendix A, and test platforms, if necessary, and other accommodations necessary to allow emission testing; and
 - (iii) submit a written report to the Department within thirty (30) days from date of test completion.
- (12) If the results of a stack test performed under circumstances representative of the facility's normal process and operating conditions indicate emissions in excess of the applicable standards, then:
 - (i) within thirty (30) days following receipt of such test results, the licensee shall re-test the non-complying emission source under circumstances representative

- of the facility's normal process and operating conditions and in accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department; and
- (ii) the days of violation shall be presumed to include the date of stack test and each and every day of operation thereafter until compliance is demonstrated under normal and representative process and operating conditions, except to the extent that the facility can prove to the satisfaction of the Department that there were intervening days during which no violation occurred or that the violation was not continuing in nature; and
- (iii) the licensee may, upon the approval of the Department following the successful demonstration of compliance at alternative load conditions, operate under such alternative load conditions on an interim basis prior to a demonstration of compliance under normal and representative process and operating conditions.
- (13) Notwithstanding any other provisions in the State Implementation Plan approved by the EPA or Section 114(a) of the CAA, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any statute, regulation, or Part 70 license requirement.
- (14) The licensee shall maintain records of malfunctions, failures, downtime, and any other similar change in operation of air pollution control systems or the emissions unit itself that would affect emission and that is not consistent with the terms and conditions of the air emission license. The licensee shall notify the Department within two (2) days or the next state working day, whichever is later, of such occasions where such changes result in an increase of emissions. The licensee shall report all excess emissions in the units of the applicable emission limitation.
- (15) Upon written request from the Department, the licensee shall establish and maintain such records, make such reports, install, use and maintain such monitoring equipment, sample such emissions (in accordance with such methods, at such locations, at such intervals, and in such a manner as the Department shall prescribe), and provide other information as the Department may reasonably require to determine the licensee's compliance status.

SPECIFIC CONDITIONS

- (16) Concrete Batch Plant
- a. Particulate emissions from the cement silo shall be vented through a fabric filter and all components of the batch plant shall be maintained so as to prevent PM leaks.
 - b. To document maintenance of the cement silo baghouse, the licensee shall keep a maintenance log recording the date and location of all bag failures as well as

all routine maintenance. The maintenance log shall be kept on-site at the concrete batch plant location.

- c. Opacity from the cement silo baghouse is limited to no greater than 5% on a six-minute block average basis.
- d. PM emissions from the concrete batching operation shall be controlled so as to prevent visible emissions in excess of 20% opacity on a six-minute block average basis.

(17) Rock Crushers

- a. Haley shall operate and maintain spray nozzles for particulate control on the primary and secondary rock crushers. Visible emissions from the crushers shall be limited to no greater than 10% opacity on a six-minute block average basis.
- b. Haley shall maintain a log detailing the maintenance on the water spray nozzles. The maintenance log shall be kept on-site at the rock crushing location.
- c. Haley shall maintain a log detailing and quantifying the hours of operation on a daily basis for the primary and secondary rock crushers. The operation log shall be kept on-site at the rock crushing location.

(18) Boilers

- a. Boilers #1 and #2 shall be limited to the firing of #2 fuel oil with a maximum sulfur content not to exceed 0.5% by weight.
- b. Haley shall be limited to an annual fuel use limit of 15,000 gallons per year, based on a 12-month rolling total. Haley shall maintain records of fuel use through purchase receipts which document the amount of each delivery and the sulfur content.
- c. Visible emissions from each boiler shall not exceed 20% opacity on a six-minute block average basis, except for no more than 2 six-minute block averages in any three-hour period.
- d. Boilers #1 and #2 shall not exceed the following emissions:

Equipment		PM	PM ₁₀	SO ₂	NO _x	CO	VOC
Boiler #1	lb/hr	0.26	0.26	1.07	0.74	0.08	0.02
Boiler #2	lb/hr	0.29	0.29	1.10	0.77	0.08	0.02

(19) Stockpiles and Roadways

Potential sources of fugitive PM emissions including material stockpiles and unpaved roadways shall be controlled by wetting with water, with calcium chloride, or other methods as approved by the Bureau of Air Quality to prevent visible emissions in excess of 10% opacity, on a three-minute block average basis.

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- (20) Equipment Relocation
- a. Haley shall notify the Bureau of Air Quality, by a written notification at least 10 days in advance, prior to relocation of any equipment carried on this license. The notification shall be sent to:
- Attn: Relocation Notice
Maine DEP
Bureau of Air Quality
17 State House Station
Augusta, ME 04333-0017
- The notification shall include the address of the equipment's new location and the license number pertaining to the relocated equipment.
- b. Written notification shall also be made to the municipality where the equipment will be relocated, except in the case of an unorganized territory where notification will be made to the respective county commissioners.
- (21) Haley shall operate the parts degreaser in accordance with Chapter 130 of the Department's regulations, including, but not limited to, labeling the parts washer with operational standards, equipping the washer with cover if vapor pressure is >15 mmHG at 100°F, closing cover when not in use, draining parts for 15 seconds or longer, not degreasing porous material, keeping drafts <40 m/min, repairing leaks, and keeping records of solvent added and removed.
- (22) Haley shall keep a copy of this Order on site, and have the operator(s) be familiar with the terms of this Order.
- (23) The term of this order shall be for five (5) years from the signature date below.

DONE AND DATED IN AUGUSTA, MAINE THIS DAY OF , 2002.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: _____
MARTHA G. KIRKPATRICK, COMMISSIONER

PLEASE NOTE THE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: September 21, 2001

Date of application acceptance: September 25, 2001

Date filed with the Board of Environmental Protection: _____

This order prepared by Elisha McVay, Bureau of Air Quality.